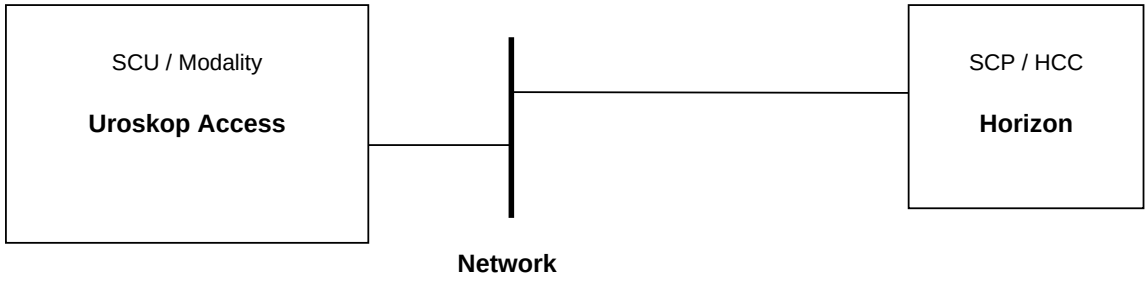
Product:	Uroskop Access
Title:	Specific Hardcopy Camera Information for Codonics Horizon
Systems affected:	Image System ASPIA
Replaces:	n.a.

1 General Information

1.1 Block Diagram



1.2 Available Film Sizes

Application			Film Type	Medium Type
14"x17"	Portrait	yes	DirectVista	Greyscale blue-based
	Landscape	yes		
14"x14"	Portrait	n.a.	n.a.	n.a.
	Landscape	n.a.		
11"x14"	Portrait	no	no	no
	Landscape	no		
8"x10"	Portrait	yes	DirectVista	Greyscale blue-based
	Landscape	yes		
others		n.a.	n.a.	n.a.

yes - Film size is available and released
no - Film size is available but not released
n.a. - Film size is not available

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1.3 Restrictions

11” x 14” film size not tested because not yet available.
8"x10" film size the linear LUT is out of tolerance.
For HCC-independent restrictions, see also the general restrictions in the document Uroskop Access, General Hardcopy Information.

2 Modality SW Configurations / Parameters

Refer to: Uroskop Access, General Hardcopy Camera Information

Application Entity Properties	**Display**		**Changes allowed**
AE Title	HORIZON		**Yes**
Port Number	104		**No**
Supported DICOM Services	Print		**No**
HC Device / General Settings		**Display**	**Changes allowed**
Type		DICOMprinter	**No**
Class (Printer spec file name)		CodonicsHorizon	**No**
DICOM Node		Horizon	Yes
Filming Properties		**Display**	**Changes allowed**
Hold printed film jobs		10	Yes
Min. Density		20	Yes
Pixel Size [1/1000 mm]		79 x 79	**No**
Film Sheet Formats, Portrait	**Number of pixels [columns x rows]**	8x10 inches 2406 x 2790 11x14 inches 3382 x 4022 14x17 inches 4322 x 5025	In "define new" Do not modify/add Select only Delete only
Film Sheet Formats, Landscape	**Number of pixels [columns x rows]**	8x10 inches 2790 x 2406 11x14 inches 4022 x 3382 14x17 inches 5025 x 4322	In "define new" Do not modify/add Select only Delete only
Medium Type		Blue film	Yes
Film Destination		Processor	No
Color appearance		monochrome	**No**
Background		black	Yes
Transformation		No magnification	**No**
Note: Do not modify and/or add film sizes. Do not modify pixel sizes. Delete film sizes that are not available at customer site.			

3 Hardcopy Camera, Configuration

3.1 Identification

Device Type:	**Printer**
Manufacturer / Device Name:	Codonics / Horizon
SW Revision:	Op.-SW.1.7.0, DICOM 3.0
Image Memory:	256 MB RAM
Hard Disk:	10 GB (8 GB for spooling)
Number of Operating Panels:	1 built-in panel
No./Type of Input:	1 Ethernet, 100/10 base T–RJ45 connector and AUI 15-pin connector
Physical Network Interface:	Ethernet, RJ45, UTP/STP Network cable cat. 5
Network Protocol:	TCP/IP
DICOM Conformance Statement	Document Rev.:V1.50a, 17.5.2002

3.2 SCP / Printer Settings (provided by Codonics)

File name	Contents		Remarks
No file available on printer	Engine Info	Firmware Version: 1.7.0 Firmware Build Information: v1.7.0 21:26 05/14/03 Printer Serial number: 50C00329C Control FPGA Version: 32 Engine FPGA Version: 34 Sensor FPGA Version: 16 Engine Subassembly ID: 0 Motherboard Serial Number: IN011001317 TPH Serial Number: 1J130433 TPH Scan Profile Version: 2 Side Edge Calibration Version: 2 Software License Code: 001-00191-066 KDU Serial Number: IN014301300 KDU Version: S5.09U5.15H02 Product Code: 0	This table is printed on the test film.
No file available on printer	PrintParams Info:	DVFILMBLU Saturation : 0 Gamma : 1.00 Contrast : 0 Rotate : Auto Scale : Lanczos MCM : - Dmin : 20 Dmax : 300 LUT: linear Polarity : Positive BorderFill : On Background : 00/00/00 Captions : On Coverage: Standard FilmView : Front ImageWarn : No	This table is printed on the test film.

3.3 Failure and Warning Messages

Printer (SCP) DCS defined message	Displayed message on SCU
PRINTER OFFLINE	Camera offline
SUPPLY EMPTY	Camera is out of film
EMPTY 14X17 BLUE	14x17 blue film supply empty
EMPTY 8X10 BLUE	8x10 blue film supply empty
NO RECEIVE MGZ	Film receiver not available
CHECK PRINTER	Check camera
COVER OPEN	Camera cover, drawer or door open
FILM JAM	Film jam

4 Image Quality and Optical Density

4.1 Reference Film and LUT

Released Film Type	DirectVista	Greyscale blue-based

Refer to: Uroskop Access, General Hardcopy Camera Information

4.2 Real Size Scaling

n.a.

5 Abbreviations

DCS	DICOM Conformance Statement
DICOM	Digital Imaging and Communication in Medicine
HW / SW	Hardware / Software
HCC	Hardcopy Camera
LUT	Look-up Table
OEM	Original Equipment Manufacturer
SCP	Service Class Provider
SCU	Service Class User
TCP/IP	Transfer Control Protocol / Internet Protocol

6 Changes to Previous Version

n.a.

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